

INCH-POUND

MIL-F-15733/30F
w/AMENDMENT 2
5 February 2025
SUPERSEDING
MIL-F-15733/30F
w/AMENDMENT 1
24 January 2008

MILITARY SPECIFICATION SHEET
FILTERS, RADIO FREQUENCY INTERFERENCE,
HERMETICALLY SEALED, STYLE FL82

Inactive for new design after 2 September 1988. For new design
use [MIL-PRF-15733/72](#). See table II for supersession data.

This specification sheet is approved for use by all
Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the filters described
herein shall consist of this specification sheet and [MIL-PRF-15733](#).

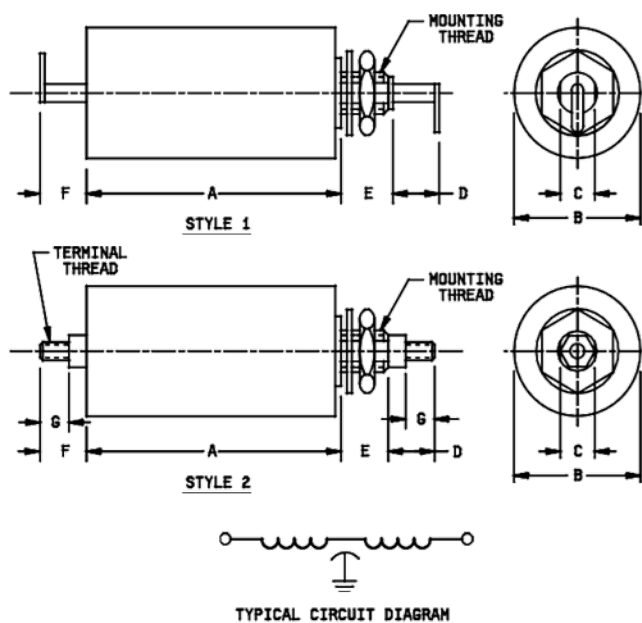


FIGURE 1. Case and circuit configuration.



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Physical characteristics.

Style	Dash number	Dimension s								Terminal thread	Terminal thread length		Mounting thread
		A		B	C	D	E		F		G		
		Min	Max	Max	Max	Max	Min	Max	Max		Min	Max	
1	0001	2.56 (65.0)	2.68 (68.1)	1.25 (31.8)	.370 (9.40)	.50 (12.7)	.44 (11.2)	.56 (14.2)	.50 (12.7)	N/A	N/A	N/A	.438-20UNF-2A
2	0002	2.56 (65.0)	2.68 (68.1)	1.25 (31.8)	.370 (9.40)	.69 (17.5)	.44 (11.2)	.56 (14.2)	.87 (22.1)	.164-32 UNC-2A	.312	.375	.438-20UNF-2A
1	0003	2.19 (55.6)	2.31 (58.7)	1.02 (25.9)	.380 (9.65)	.25 (6.4)	.42 (10.7)	.46 (11.7)	.25 (6.4)	N/A	N/A	N/A	.438-20UNF-2A
1	0004	2.81 (71.4)	2.93 (74.4)	1.02 (25.9)	.380 (9.65)	.25 (6.4)	.42 (10.7)	.46 (11.7)	.25 (6.4)	N/A	N/A	N/A	.438-20UNF-2A
1	0005	4.13 (104.9)	4.25 (108.0)	1.27 (32.3)	.380 (9.65)	.25 (6.4)	.42 (10.7)	.46 (11.7)	.25 (6.4)	N/A	N/A	N/A	.438-20UNF-2A
2	0006	3.82 (97.0)	3.94 (100.1)	1.52 (38.6)	.666 (16.92)	.69 (17.5)	.48 (12.2)	.52 (13.2)	.69 (17.5)	.164-32 UNC-2A	.312	.375	.750-20UNEF-2A
2	0007	3.82 (97.0)	3.94 (100.1)	1.77 (45.0)	.666 (16.92)	.69 (17.5)	.48 (12.2)	.52 (13.2)	.69 (17.5)	.164-32 UNC-2A	.312	.375	.750-20UNEF-2A
2	0008	3.94 (100.1)	4.06 (103.1)	1.52 (38.6)	.666 (16.92)	.69 (17.5)	.48 (12.2)	.52 (13.2)	.69 (17.5)	.164-32 UNC-2A	.312	.375	.750-20UNEF-2A
2	0009	4.69 (119.1)	4.81 (122.2)	2.27 (57.7)	1.075 (27.30)	.81 (20.6)	.54 (13.7)	.58 (14.7)	.81 (20.6)	.190-32 UNF-2A	.312	.375	1.125-18UNEF-2A
2	0010	5.44 (138.2)	5.56 (141.2)	2.27 (57.7)	1.075 (27.30)	.88 (22.4)	.54 (13.7)	.58 (14.7)	.88 (22.4)	.250-20 UNC-2A	.44	.50	1.125-18UNEF-2A

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only.
4. Circuit diagram is for information only.
5. Mounting hardware shall be supplied with filter.

FIGURE 1. Case and circuit configuration (continued).

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TABLE I. Electrical characteristics.

Dash number	Rated current (amperes)	Minimum insertion loss (dB) in accordance with MIL-STD-220 at 25°C 1/						
		150 kHz	300 kHz	600 kHz	1 MHz	10 MHz	100 MHz	1 GHz
0001	2	50	60	60	60	60	60	60
0002	2	50	60	60	60	60	60	60
0003	.5	40	50	60	60	60	60	60
0004	1	40	50	60	60	60	60	60
0005	3	40	50	60	60	60	60	60
0006	5	40	50	60	60	60	60	60
0007	10	40	50	60	60	60	60	60
0008	20	37	46	54	58	60	60	60
0009	30	37	46	54	58	60	60	60
0010	50	37	46	54	58	60	60	60

1/ No-load insertion loss measurements shall be performed at 100 MHz and 1 GHz. Full-load insertion loss measurements shall be performed from 150 KHz to 10 MHz.

REQUIREMENTS:

Configurations and dimensions: See [figure 1](#).

Case: Metal.

Case and mounting hardware finish: In accordance with [MIL-PRF-15733](#). Pure tin finish is prohibited.

Rated voltage: 100 V dc, 30 V ac.

Rated current: See [table I](#).

Insertion loss: In accordance with [MIL-PRF-15733](#) and [table I](#). Operating temperature range: -55°C to +125°C.

Seal: In accordance with [MIL-PRF-15733](#).

Temperature rise: In accordance with [MIL-PRF-15733](#) and the following:

25°C maximum for parts rated up to and including 10 amperes.

35°C maximum for parts rated above 10 amperes.

Insulation resistance: In accordance with [MIL-PRF-15733](#). Insulation resistance shall be 1,000 megohms minimum when measured at +25°C between both terminals connected together and the case.

Terminal strength: In accordance with [MIL-PRF-15733](#) and [MIL-STD-202-211](#). The following details shall apply:

Style 1 - Test condition A (applied force: 9 pounds) and Test condition B (5 bends).

Style 2 - Test condition E, torque shall be as specified in [MIL-PRF-15733](#).

Salt atmosphere (corrosion): In accordance with [MIL-PRF-15733](#) and [MIL-STD-202-101](#); test condition A. Shock (specified pulse): In accordance with [MIL-PRF-15733](#) and [MIL-STD-202-213](#); test condition I.

Vibration, high frequency: In accordance with [MIL-PRF-15733](#) and [MIL-STD-202-204](#); test condition B (15 g's).

Life: In accordance with [MIL-PRF-15733](#) and [MIL-STD-202-108](#); test condition B. Part or

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Identifying Number (PIN): M15733/30- (dash number from [table I](#)).

Supersession data: See [table II](#).

TABLE II. Supersession data.

Inactive PIN M15733/30-	Superseding PIN M15733/72-
0001	0058
0002	0059
0003	0055
0004	0057
0005	0059
0006	0061
0007	0063
0008	0065
0009	0067
0010	0069

Referenced documents. In addition to [MIL-PRF-15733](#), this document also references the following:

[MIL-STD-202-101](#)
[MIL-STD-202-108](#)
[MIL-STD-202-204](#)
[MIL-STD-202-211](#)
[MIL-STD-202-213](#)
[MIL-STD-220](#)
[MIL-PRF-15733/72](#)

Amendment notations. The margins of this specification sheet are marked with vertical line to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Custodians:

Navy - EC
Air Force - 85
DLA – CC

Preparing activity:
DLA - CC

(Project 5915-2025-002)

Review activities:

Navy - AS, MC
Air Force - 19

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil/>.